

**DRAFT**

**Maintenance Effort Remains Consistent with Prior Fiscal Year**

**STATEMENT OF WORK  
TO INSPECT AND REPAIR ONLY AS NECESSARY THE  
NORTH FINDING MODULE  
CENTRAL PROCESSING UNIT, CPU  
NSN 5999-01-212-3792**

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**1.0 SCOPE.** This Statement of Work (SOW) establishes and sets forth tasks and identifies the work efforts that shall be performed by the Contractor to Inspect and Repair Only as Necessary (IROAN) the North Finding Module Central Processing Unit (CPU), Engineering Drawing 81A5034A0150, CAGE 80372, NSN 5999-01-212-3792, hereafter referred to as the CPU. This document contains requirements to restore the CPU to Condition Code "A." Condition Code "A" is defined as "serviceable/issuable without qualification, new, used, repaired or reconditioned materiel which is serviceable and issuable to all customers without limitation or restriction, including materiel with more than six months shelf-life remaining."

**1.1 Background.** IROAN is defined as "That maintenance technique which determines the minimum repairs necessary to restore equipment components or assemblies to prescribed maintenance serviceability standards by utilizing all available diagnostic equipment and test procedures in order to minimize disassembly and parts replacement."

**2.0 APPLICABLE DOCUMENTS.** The following documents form a part of this SOW to the extent specified. Unless otherwise specified, the issues of these documents are those listed in the DoD Index of Specifications and Standards and supplement thereto which is in effect on the date of solicitation. In the event of conflict between the documents referenced herein and the contents of this SOW, the contents of this SOW shall be the superseding requirement.

**2.1 Military Standard**

MIL-STD-129	DoD Standard Practice for Military Marking
MIL-STD-2073-1D	DoD Standard Practice for Military Packaging

**2.2 Other Government Documents and Publications**

RS 08911A-50&P/3	Rebuild Standard With Illustrated Parts List North Finding Module MX-18204/GSQ
81A5034A0150/ CAGE 80372, Revision C	CPU and 12K Memory Assembly. A4. Engineering Drawing
DoD 4000.25-1-M	MILSTRIP Manual
TM 09811A-34&P/2	Intermediate Maintenance Manual with Illustrated Parts List for North Finding Module MX-18204/GSQ

**Military Handbooks (For Guidance)**

MIL-HDBK-61	Configuration Management Guidance
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**2.3 Industry Standards**

JESD625-A	Requirements for Handling Electrostatic-Discharge-Sensitive (ESDS) Devices
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ANSI/ISO/ASQC Q9002-1994	Quality Systems- Model for Quality Assurance in Production, Installation, and Servicing
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**Industry Standards (For Guidance)**

ANSI/EIA-649	National Consensus Standard for Configuration Management
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Copies of Military Standards and Specifications are available from the DOD Single Stock Point, Document Automation and Production Service, Building 4/D, 700 Robbins Avenue, Philadelphia, Pa., 19111-5094, commercial telephone number (215) 697-2179 or DSN 442-2179, or <http://www.dodssp.daps.mil>. Copies of other government documents and publications required by contractors in connection with specific SOW requirements shall be obtained through the Contracting Officer: Contracts Department (Code 891), P.O. Drawer 43019, 814 Radford Blvd., Marine Corps Logistics Bases, Albany, Georgia 31704-3019, commercial telephone number (229) 639-6761 or DSN 567-6761. Copies of engineering drawings, if applicable, shall be obtained from Supply Chain Management Center, Attn: Code 583-1, 814 Radford Blvd. Suite 20320, Albany, Georgia 31704-0320, commercial telephone number (229) 639-6476 or DSN 567-6476.

**3.0 REQUIREMENTS**

**3.1 General Tasks.** In fulfilling the specified requirements, the Contractor shall provide materials, labor, equipment, facilities and missing/repair parts, necessary to inspect, diagnose, restore, and test and/or calibrate the CPU. Upon completion of repair, the subject item shall be Condition Code "A."

**3.2 Detailed Tasks.** The following tasks describe the different phases for repair of the CPU:

Phase I	Pre-Induction
Phase II	Repair
Phase III	Inspection, Testing, and Acceptance
Phase IV	Packaging, Handling, Storage, and Transportation (PHS&T)

**3.2.1 Phase I- Pre-Induction.** The Contractor shall perform a pre-induction inspection analysis for each CPU within 5 working days of induction into the Contractor's facility for evaluation of repair capability. If repair is not feasible, assign Condition Code "H" (CC "H"), notify Marine Corps Systems Command (MCSC), (Code CBG), Albany, Georgia for disposition instructions, otherwise assign CC "M" and induct into the repair cycle. The Pre-Induction checklist, which consists of DA Form 2404 (Appendix A) and Standard Form 364 (Appendix B), shall be used to report all anomalies and shall be provided to the Government (MCSC, Code CBG) in accordance with Section 4.0 of this SOW.

**3.2.2 Phase II – Repair.** After pre-induction tests and inspections have been completed, repair of the CPU shall be accomplished by the Contractor in accordance with this SOW. Deficiencies noted on the Pre-Induction Checklist (Appendix A and Appendix B) during Phase I shall be repaired/replaced. Components or assemblies shall not be disassembled for replacement of parts unless that part has failed, or the component assembly wherein the part is located is disassembled for repair.

a. Hardware

(1) Replace broken, unserviceable and/or missing hardware including nuts, bolts, screws, washers, turnlock fasteners, mandatory replacement items, safety and one-time use items. Unserviceable would include any of the above that failed to function properly.

(2) Ensure proper hardware locking devices are present on all moving mechanical assemblies.

(3) Hardware normally supplied with commercial parts shall be used unless specifically prohibited.

b. Publications and Documentation: The following standard, publication, and engineering drawing shall be used to assist the Contractor in restoring the CPU to condition code "A."

RS 08911A-50&P/3

Rebuild Standard With Illustrated Parts List  
North Finding Module MX-18204/GSQ

TM 09811A-34&P/2

Intermediate Maintenance Manual with Illustrated  
Parts List for North Finding Module  
MX-18204/GSQ

81A5034A0150/  
CAGE 80372, Revision C

CPU and 12K Memory Assembly, A4, Engineering  
Drawing

**3.2.3 Phase III - Inspection, Testing, and Acceptance**

- a. The Contractor shall conduct Inspection, Testing and Acceptance of the CPU in accordance with the publications and documents listed in section 3.2.2.b.
- b. The Contractor shall be responsible for conducting required tests in accordance with applicable procedures and specifications.
- c. The Contractor shall be responsible for correcting any deficiencies identified during inspection/testing. MCSC (Code CBG), Albany, GA representatives may require the Contractor to repeat tests.

**3.2.4 Phase IV - Packaging, Handling, Storage, and Transportation**

- a. The Contractor shall be responsible for preservation and packaging of item(s) being repaired under the terms of this statement of work. Items scheduled for long-term storage or shipment to overseas destinations shall be in accordance with the level A requirements of MIL-STD-2073-1D, Appendix A, Table A.VI., Electronic Equipment. Items scheduled for domestic shipment for immediate use or short-term storage shall be to level B requirements.
- b. Marking for shipment and storage shall be in accordance with MIL-STD-129.
- c. The Marine Corps will provide the Contractor with the shipping address(es) for delivery of the repaired equipment. The Contractor shall be responsible for arranging for shipment to the pre-designated site(s). The Marine Corps will be responsible for transportation costs associated with shipping the subject equipment to and from the Contractor.

**3.3 Government Furnished Equipment (GFE)/Government Furnished Materiel (GFM).**

The Management Control Activity (MCA/Code 573-2) will coordinate Government Furnished Equipment/Government Furnished Materiel (GFE)/(GFM) requests and maintain a central control system on all government owned assets in the contractor's possession. The MCA will forward a GFE Accountability Agreement to the contractor for signature on an annual basis to establish a chain of custody and identify property responsibilities for Marine Corps assets. The contractor is to acknowledge receipt of GFM to the MCA within 15 days of receipt. (This can be done by mailing (Materiel Management Department, Management Control Activity (Code 573-2) 814 Radford Blvd, STE 20320, Albany, GA 31704-0320) or faxing (commercial 229-639-5498 or DSN 567-5498) a copy of the DD1348).

**3.4 Contractor Furnished Materiel (CFM).** The contractor may requisition materiel as required in the performance of the SOW through the DoD Supply System. DoD 4000.25-1-M (MILSTRIP) Chapter 11 provides guidance to contractors on the requisitioning process. The contractor's decision to utilize CFM procured from the DoD Supply System shall be based upon cost effectiveness, availability of materiel and the required completion/delivery date.

**3.5 Configuration Control.** The contractor shall apply configuration control procedures to established configuration baseline items. The contractor shall not implement configuration

changes to an items' documented performance or design characteristics without prior written authorization. If it is necessary to temporarily depart from the authorized configuration, the contractor shall prepare and submit a Request for Deviation. MIL-HDBK-61 and ANSI/EIA-649 provide guidance for preparing this configuration control document.

**3.6 Electrostatic Discharge (ESD) Control Program.** The Contractor shall establish, implement and document an ESD control program following the guidelines provided in JESD625-A. ESD protective measures shall be used during manufacturing, handling, inspection, testing, marking, packaging, storing and transporting ESD sensitive components.

**3.7 Quality Assurance Provisions.** The Contractor shall provide and maintain a quality system that as a minimum, adheres to the requirements of ANSI/ISO/ASQC Q9002-1994, Quality System- Model for Quality Assurance in Production, Installation, and Servicing. The program shall ensure quality throughout all areas to include processing, assembly, inspection, test, maintenance, and preparation for delivery and shipping. Unless otherwise specified in the contract, the Contractor shall be responsible for performance of all inspection requirements. The Government (MCSC, Code CBG) reserves the right to perform any of the inspections set forth in the contract where such inspections are deemed necessary to assure products and services conform to the prescribed requirements.

**3.8 Acceptance.** The performance of the Contractor and the quality of work delivered, including all equipment furnished and documentation written or compiled, shall be subject to in-process review and inspection during performance. Inspection may be accomplished in-plant or at any work site or location, and Marine Corps (MCSC, Code CBG) representatives shall be permitted to observe the work or to conduct an inspection.

**3.9 Rejection.** Failure to comply with any of the specified requirements listed herein shall be reason for rejection by MCSC, Code CBG, Albany, representative. The Contractor shall, at no additional cost to MCSC, Albany, Georgia, correct the deficiencies and repeat the verification until an acceptable compliance with acceptance test procedures is demonstrated.

**4.0 REPORTS.** The contractor shall provide one copy of the below reports to the following address: "Marine Corps Systems Command, Attn: (CBG), 814 Radford Blvd., Suite 20320, Albany, Georgia 31704-0320.

**4.1 Pre-Induction Checklist.** The Contractor shall complete the Pre-Induction Inspection Checklist (Appendix A and Appendix B) for each CPU repaired. These documents shall be available prior to final acceptance testing. One copy of each document shall be provided after final acceptance of the CPU.

**4.2 Repairable Item Inspection Report.** The Contractor shall provide a Repairable Item Inspection Report for each CPU repaired.

**4.3 Monthly Progress Reports.** The Contractor shall provide Monthly Progress Reports summarizing the progress and status of the CPU Program.

DA FORM 2404  
1 APR 79

Procedes edition of 1 Jan 84, which will be used



DEPARTMENT OF DEFENSE: DLAR 4140.55/AR 735.11.2/NAVSUPINST 4440.127E/AFR 400.54/MCO 4430.3E, Reporting of Item and Packaging Discrepancies, and/or DLAR 4140.60/AR 12-12/NAVSUPINST 4920.9B/AFR 67.7/MCO 4140.1B, processing Discrepancy Reports Against Foreign Military Sales Shipments.  
CIVILIAN AGENCIES: See FPMR handbook cited in 19 (2) (a).

1. DISCREPANCY CODES		2. ACTION CODES
<b>CONDITION OF MATERIAL</b> C1 - In condition other than that indicated on release/receipt document C2 - Expired shelf life C3 - Damaged parcel post shipment <b>SUPPLY DOCUMENTATION</b> D1 - Not received D2 - Illegible or mutilated D3 - Incomplete, improper or without authority <i>(Only when receipt cannot be properly processed)</i> <b>MISDIRECTED MATERIAL</b> M1 - Addressed to wrong activity <b>OVERAGE/DUPLICATE SHIPMENTS</b> O1 - Quantity in excess of that on receipt document O2 - Quantity in excess of that requested <i>(Other than unit of issue pack)</i> O3 - Quantity duplicate shipment <b>PACKING DISCREPANCY</b> P1 - Improper preservation P2 - Improper packing P3 - Improper Marking P4 - Improper unitization <b>13. FUNDING AND ACCOUNTING DATA</b>	<b>PRODUCT QUALITY DEFICIENCIES</b> Q1 - Deficient material <i>(Applicable to Grant Aid and FMS shipments)</i> <b>SHORTAGE OF MATERIAL</b> S1 - Quantity less than that on receipt document S2 - Quantity less than that requested <i>(Other than unit of issue pack)</i> S3 - Non-receipt of parcel post shipments <b>ITEM TECHNICAL DATA MARKINGS</b> <i>(i.e., Name Plates, Log Books, Operating Handbooks, Special Instructions, etc.)</i> T1 - Missing T2 - Illegible or Mutilated T3 - Precautionary operational markings missing T4 - Inspection data missing or incomplete T5 - Serviceability operating data missing or incomplete T6 - Warranty data missing <b>WRONG ITEM</b> <i>(Identify requested item as a separate copy in Item 9. above)</i> W1 - Incorrect item received W2 - Unacceptable substitute <b>OTHER DISCREPANCIES</b> Z1 - See Remarks	1A - Disposition instructions requested <i>(Reply on reverse)</i> 1B - Material being retained <i>(See Remarks)</i> 1C - Supporting supply documentation requested 1D - Material still required, expedite shipment <i>(Not applicable to FMS)</i> 1E - Local purchase material to be returned at supplier's expense unless disposition instructions to the contrary are received within 15 days <i>(Reply on reverse)</i> <i>(Not applicable to FMS)</i> 1F - Replacement shipment requested <i>(Not applicable to FMS)</i> 1G - Reshipment not required. Item to be re-requisitioned 1H - No action required. Information only 1Z - Other action requested <i>(See remarks)</i>
14a. TYPED OR PRINTED NAME, TITLE, AND PHONE NUMBER OF PREPARING OFFICIAL	14b. SIGNATURE	
	1	